u	u_7	u_{22}	$u_7 \Rightarrow u_{22} \Rightarrow u$	$u_7 ? u_{22} : u$
0	0	0	1	0
1	0	0	1	1
0	1	0	1	0
1	1	0	1	0
0	0	1	1	0
1	0	1	1	1
0	1	1	0	1
1	1	1	1	1

A	B	$A \oplus B$	$A \wedge B$
0	0	0	0
1	0	1	0
0	1	1	0
1	1	0	1

B	A	$B \wedge A$	$B \vee A$	$A \Rightarrow B$
0	0	0	0	1
1	0	0	1	1
0	1	0	1	0
1	1	1	1	1

p	q	$p \Rightarrow q$	$\neg p \Rightarrow (q \Leftrightarrow p)$	$p \vee q$	$\neg p \oplus q$
0	0	1	1	0	1
1	0	0	1	1	0
0	1	1	0	1	0
1	1	1	1	1	1

a	b	$a \wedge b$
b	b	b
a	b	b
b	a	b
a	a	a

A	B	$A \rightarrow B$
0	0	1
1	0	0
0	1	1
1	1	1

p	$p \Rightarrow p$	$(p \Rightarrow p) \Rightarrow p$	$p \Rightarrow (p \Rightarrow p)$
0	1	0	1
1	1	1	1

p	q	r	$q \to r$	$(q \to r) \wedge (p \vee r)$	$p \vee r$	$p \to q$	$(p \to q) \to r$
F	F	F	T	F	F	T	F
F	F	T	T	T	T	T	T
F	T	F	F	F	F	T	F
F	T	T	T	T	T	T	T
T	F	F	T	T	T	F	T
T	F	T	T	T	T	F	T
T	T	F	F	F	T	T	F
T	T	T	T	T	T	T	T

a	b	$a \wedge b$
\$	\$	\$
\$	x	
x	\$	x
x	x	

p	q	r	$p \vee q$	$q \to r$	$(p \vee q) \to (q \to r)$	$\neg(q \to r)$	$p \to r$	$\neg(q \to r) \to (p \to r)$
F	F	F	F	T	T	F	T	T
F	F	T	F	T	T	F	T	T
F	T	F	T	F	F	T	T	T
F	T	T	T	T	T	F	T	T
T	F	F	T	T	T	F	F	T

T	F	T	T	T	T	F	T	T
T	T	F	T	F	F	T	F	F
T	T	T	T	T	T	F	T	T